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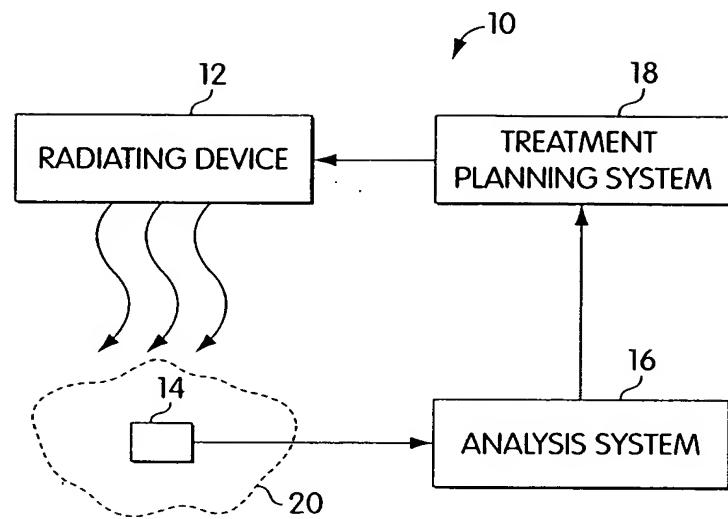


Fig. 1

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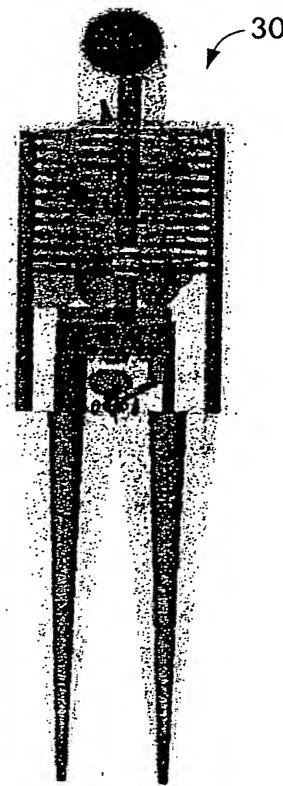


Fig. 2

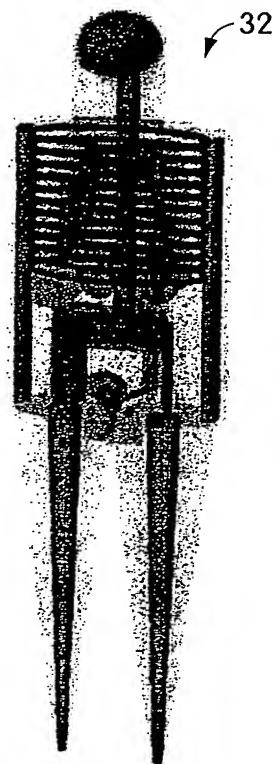


Fig. 3

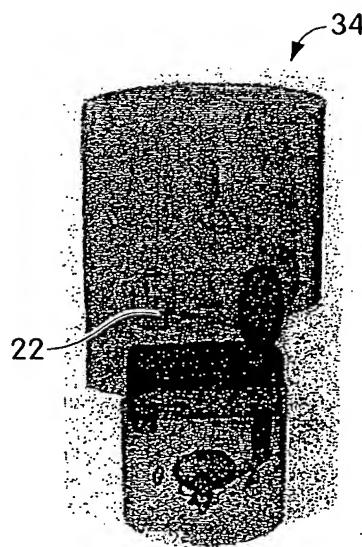


Fig. 4

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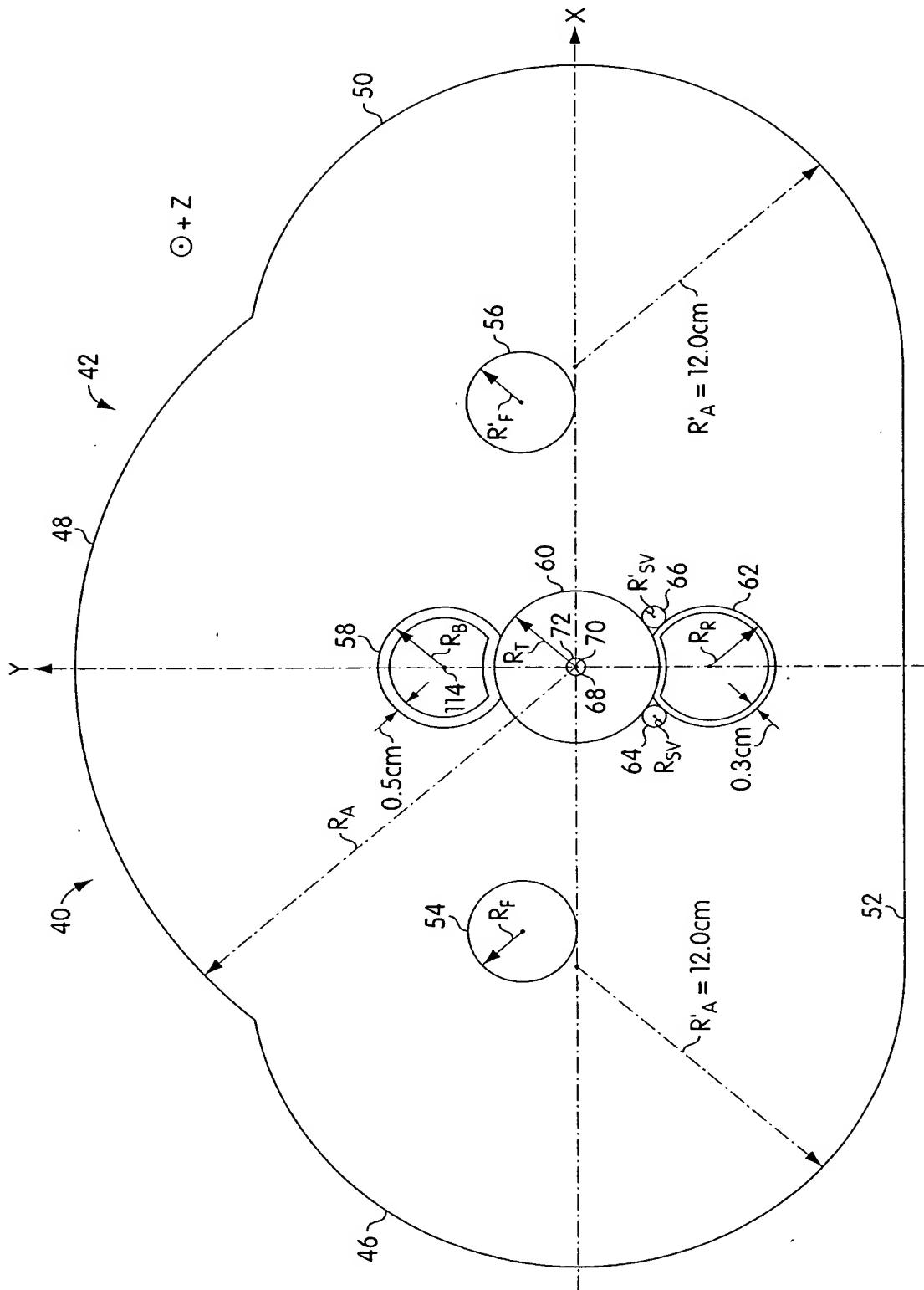


Fig. 5

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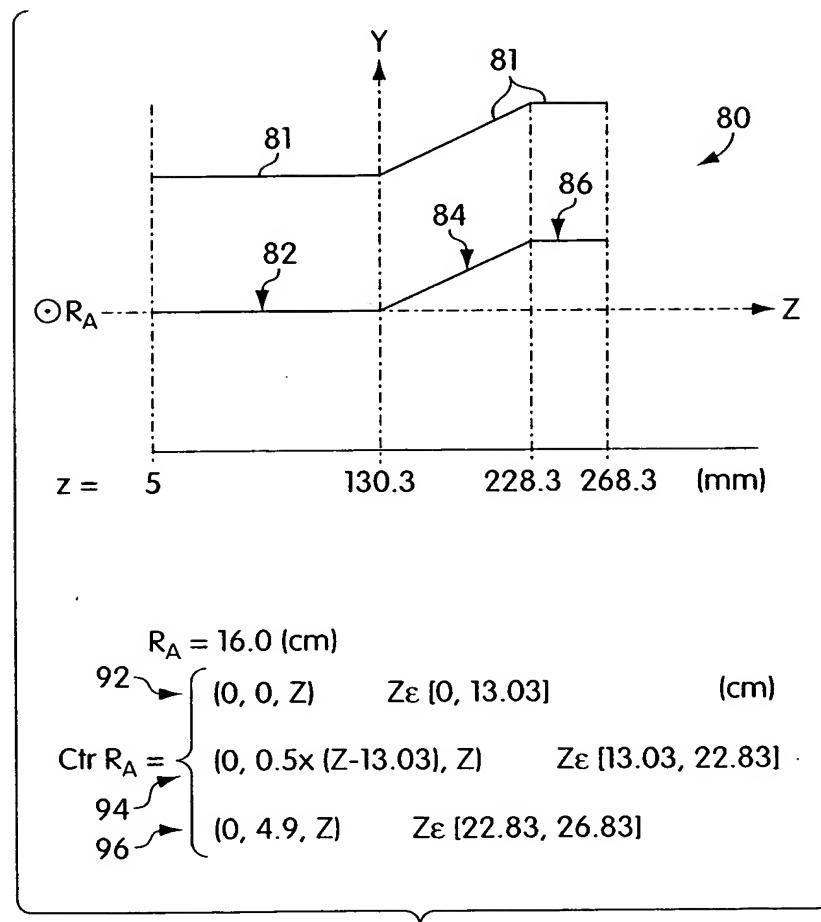


Fig. 6

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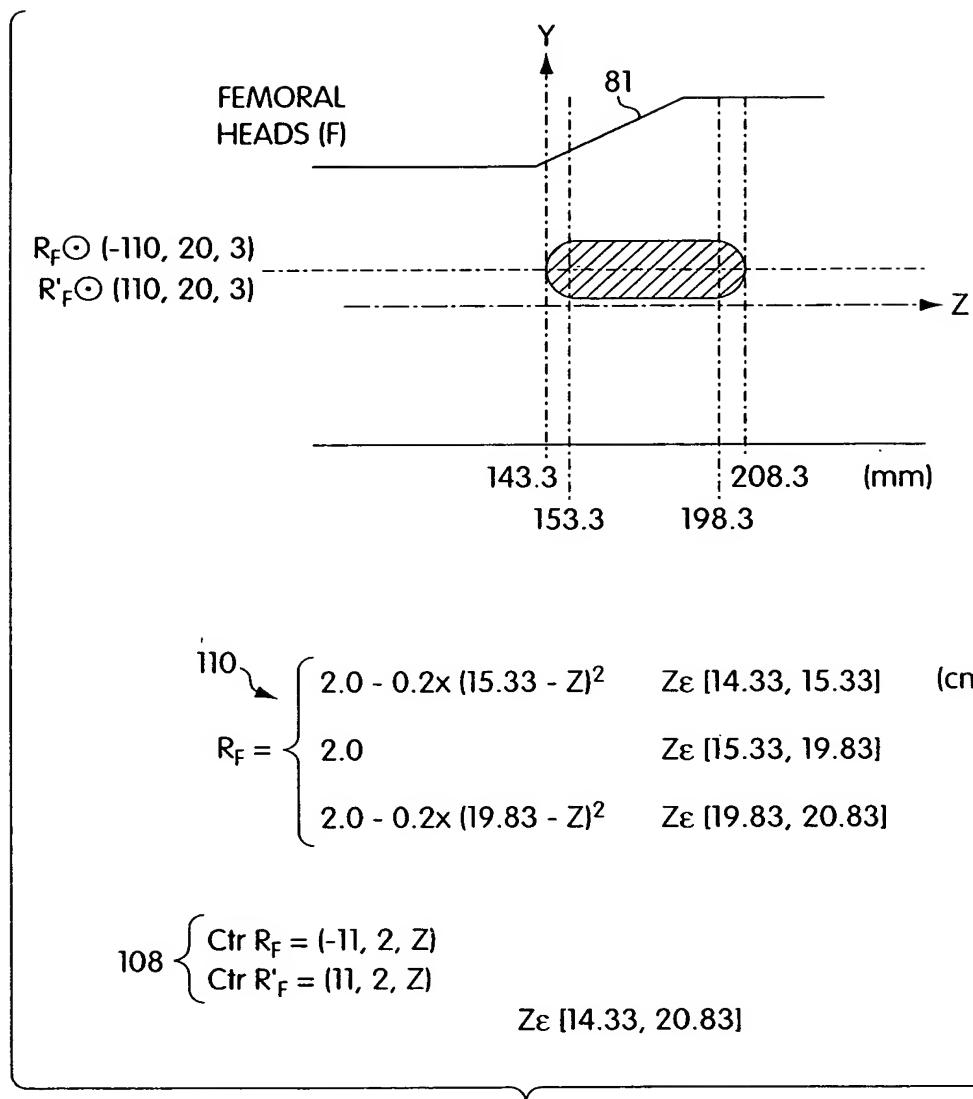
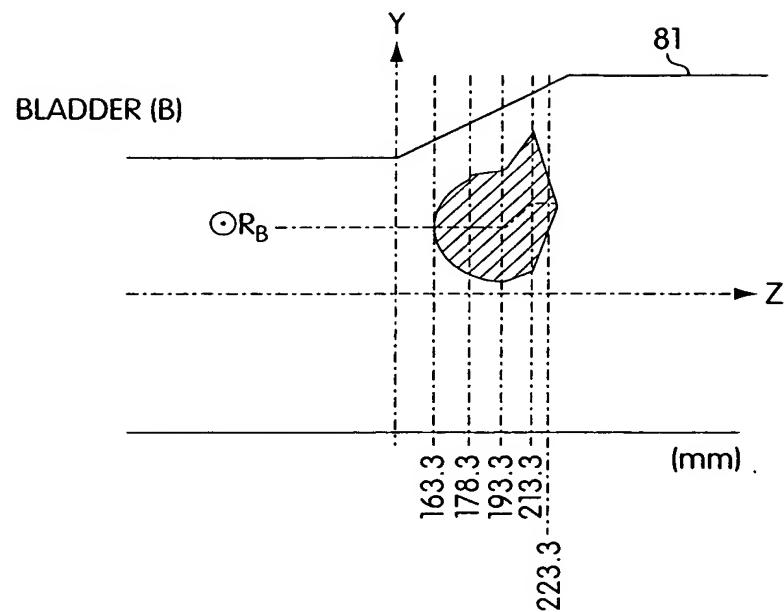


Fig. 7

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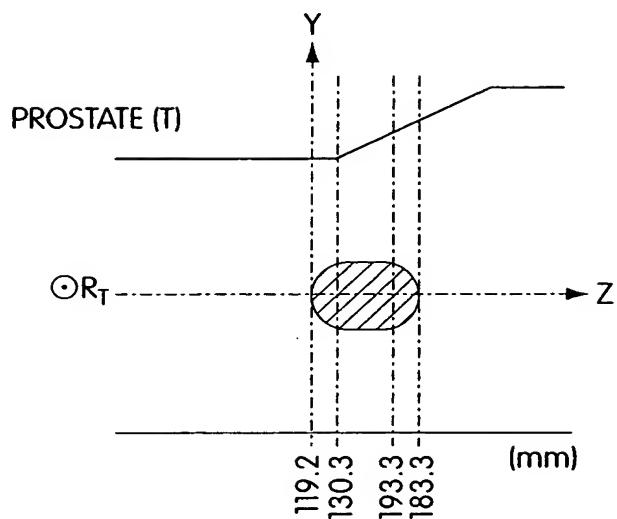
$$R_B = \begin{cases} 2.5 \times (Z - 16.33) & Z \in [16.33, 17.33] \\ 2.5 + 0.5 (Z - 17.33) & Z \in [17.33, 21.33] \\ 6.0 - 1.5 \times (Z - 19.33) & Z \in [21.33, 22.33] \end{cases} \text{ (cm)}$$

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$$\text{Ctr } R_B = \begin{cases} (0, 5.0, Z), & Z \in [16.33, 19.33] \\ (0, 5.0 + (Z - 19.33), Z) & Z \in [19.33, 21.33] \\ (0, 7.0, Z) & Z \in [21.33, 22.83] \end{cases}$$

Fig. 8

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$$R_T = \begin{cases} 3.0 - 0.25 \times (Z - 13.03)^2 & Z \in [11.92, 13.03] \\ 3.0 & Z \in [13.03, 17.33] \\ 3.0 - 0.25 \times (Z - 17.33)^2 & Z \in [17.33, 18.33] \end{cases} \text{ (cm)}$$

$$\text{Ctr } R_T = (0, 0, Z) \quad Z \in [11.92, 18.3]$$

Fig. 9

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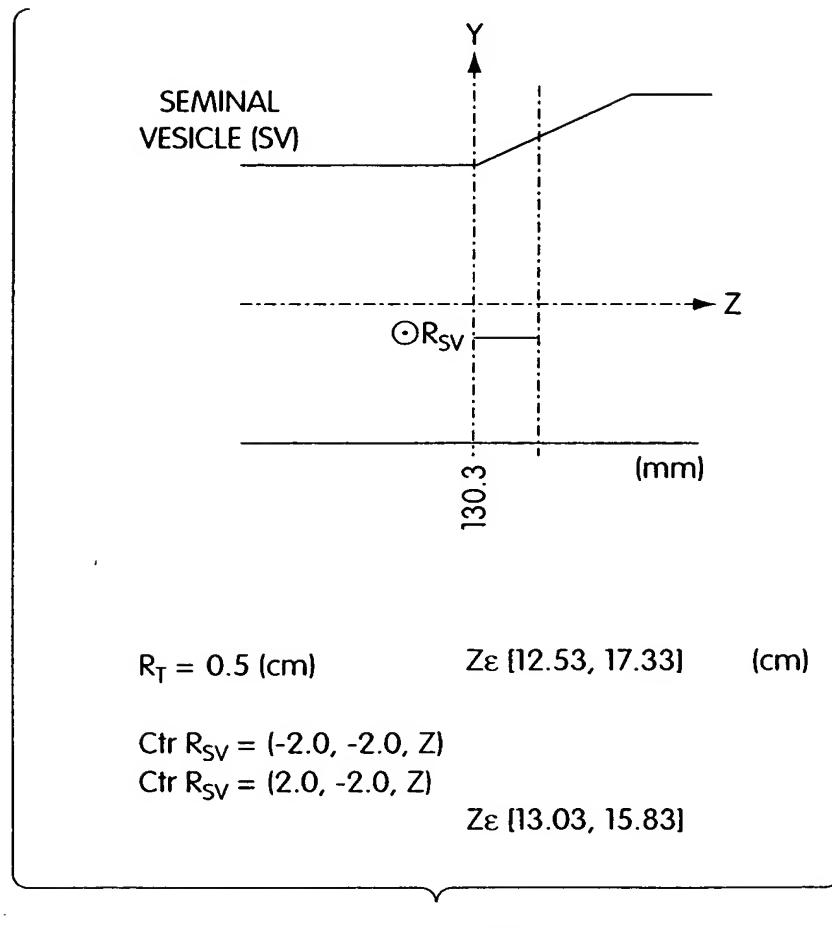


Fig. 10

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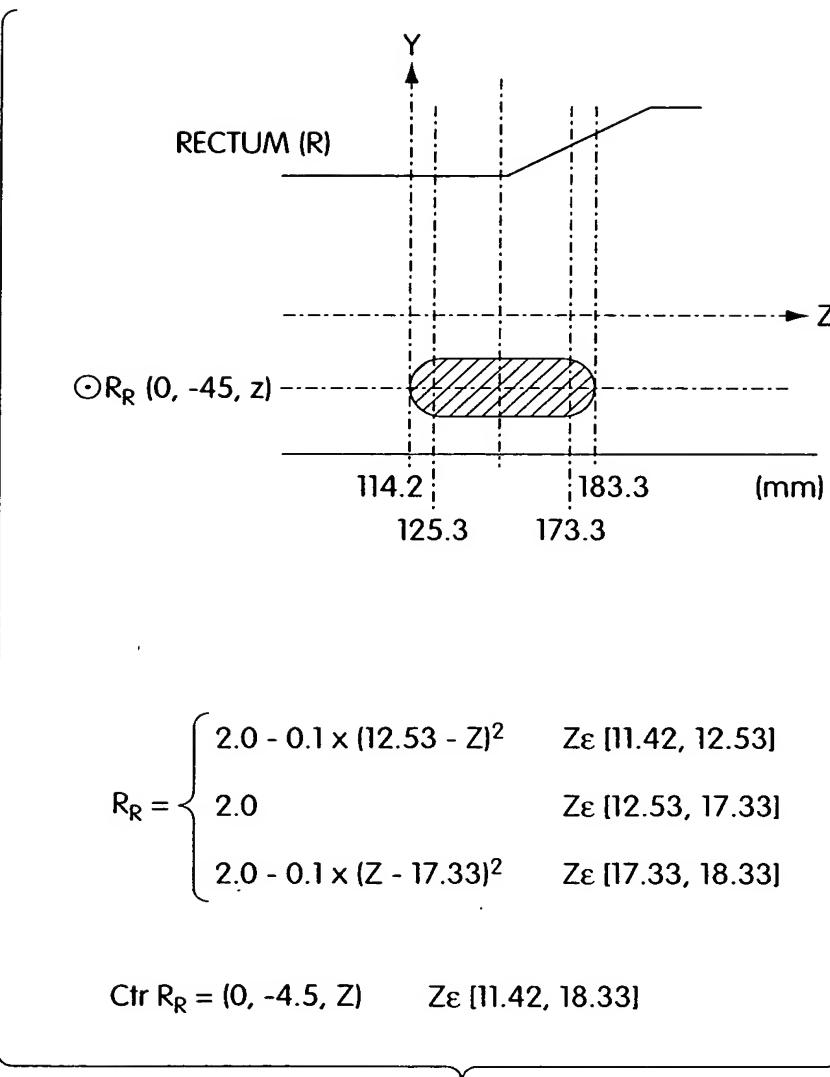
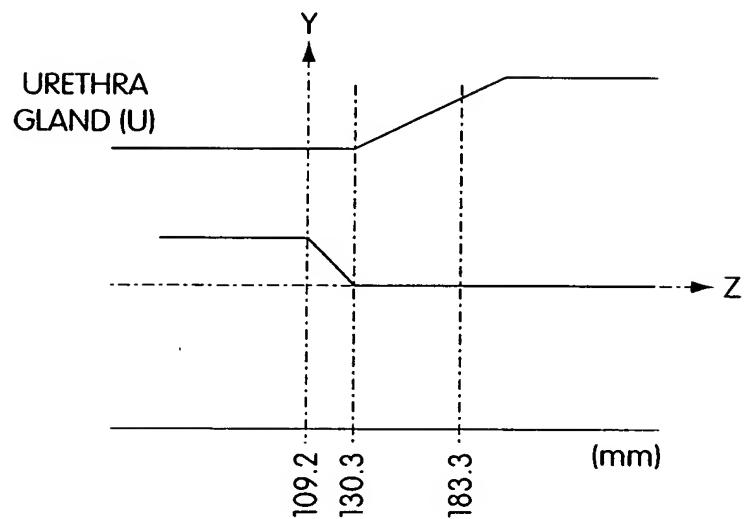


Fig. 11

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$$R_U = 0.15$$

$$Z \in [12.53, 17.33]$$

$$\text{Ctr } R_U = \begin{cases} (0, 2.0, Z) & Z \in [0.5, 10.92] \text{ (cm)} \\ (0, 2.0 + 0.95 \times (10.92 - Z), Z) & Z \in [10.92, 13.03] \\ (0, 0, Z) & Z \in [13.03, 18.33] \end{cases}$$

Fig. 12

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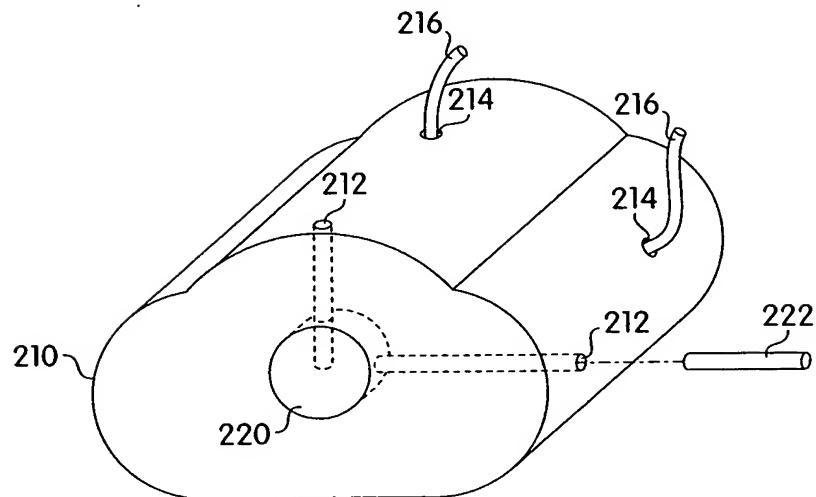


Fig. 13

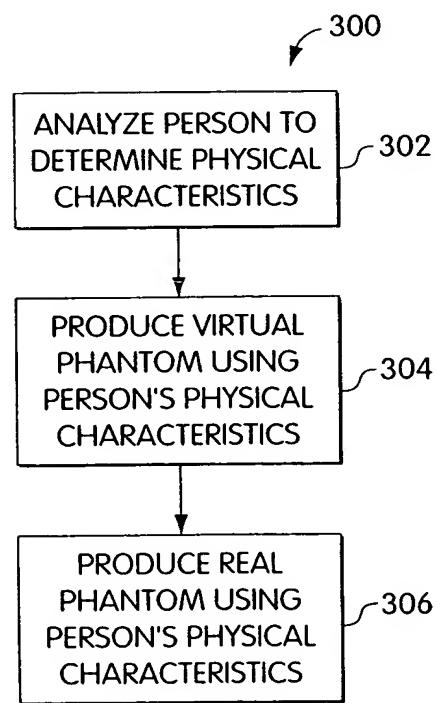


Fig. 14

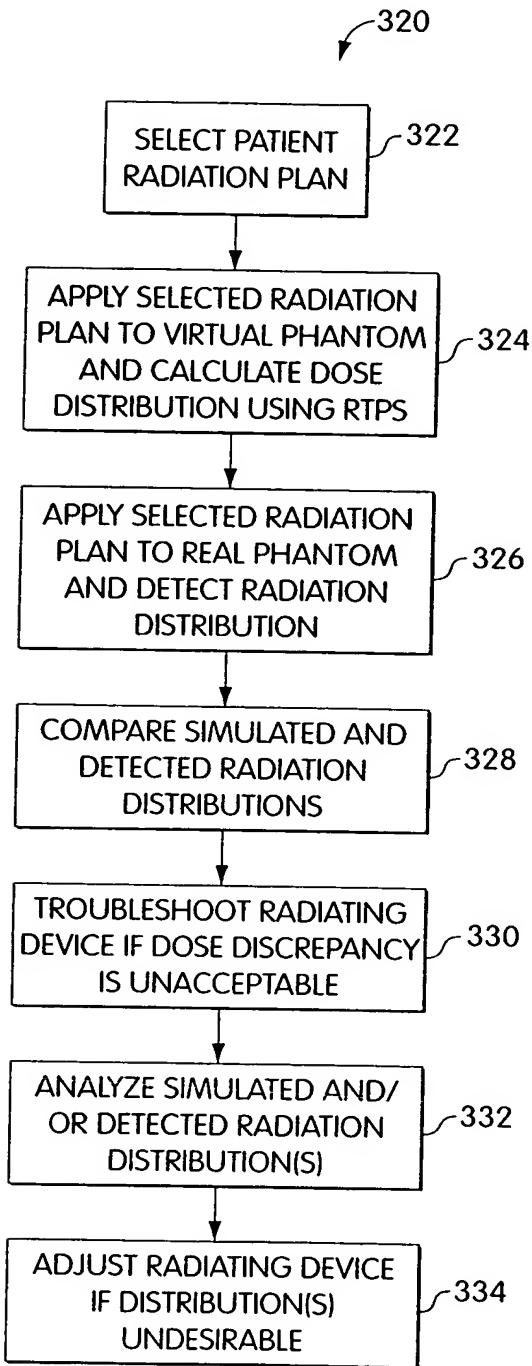


Fig. 15

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